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1 [The relational model for database management: version 2](#)

E. F. Codd
January 1990 Book

Publisher: Addison-Wesley Longman Publishing Co., Inc.

Full text available: [pdf\(28.61 MB\)](#)

Additional Information: [full citation](#), [abstract](#), [references](#), [citations](#), [index terms](#), [review](#)

From the Preface (See Front Matter for full Preface)

An important adjunct to precision is a sound theoretical foundation. The relational model is solidly based on two parts of mathematics: firstorder predicate logic and the theory of relations. This book, however, does not dwell on the theoretical foundations, but rather on all the features of the relational model that I now perceive as important for database users, and therefore for DBMS vendors. My perceptions result from 20 y ...

2 [Statistical and learning methods I: Weighted rational transductions and their application to human language processing](#)

Fernando Pereira, Michael Riley, Richard Sproat

March 1994 **Proceedings of the workshop on Human Language Technology HLT '94**

Publisher: Association for Computational Linguistics

Full text available: [pdf\(685.83 KB\)](#)

Additional Information: [full citation](#), [abstract](#), [references](#), [citations](#)

We present the concepts of weighted language, transduction and automaton from algebraic automata theory as a general framework for describing and implementing decoding cascades in speech and language processing. This generality allows us to represent uniformly such information sources as pronunciation dictionaries, language models and lattices, and to use uniform algorithms for building decoding stages and for optimizing and combining them. In particular, a single *automata join* algorithm ...

3 [Data clustering: a review](#)

A. K. Jain, M. N. Murty, P. J. Flynn

September 1999 **ACM Computing Surveys (CSUR)**, Volume 31 Issue 3

Publisher: ACM Press

Full text available: [pdf\(636.24 KB\)](#)

Additional Information: [full citation](#), [abstract](#), [references](#), [citations](#), [index terms](#), [review](#)

Clustering is the unsupervised classification of patterns (observations, data items, or

feature vectors) into groups (clusters). The clustering problem has been addressed in many contexts and by researchers in many disciplines; this reflects its broad appeal and usefulness as one of the steps in exploratory data analysis. However, clustering is a difficult problem combinatorially, and differences in assumptions and contexts in different communities has made the transfer of useful generic co ...

Keywords: cluster analysis, clustering applications, exploratory data analysis, incremental clustering, similarity indices, unsupervised learning

4 Data mining (DM): Expanding the taxonomies of bibliographic archives with persistent long-term themes



Rene Schult, Myra Spiliopoulou

April 2006 **Proceedings of the 2006 ACM symposium on Applied computing SAC '06**

Publisher: ACM Press

Full text available:  [pdf\(210.33 KB\)](#) Additional Information: [full citation](#), [abstract](#), [references](#), [index terms](#)

As document collections accumulate over time, some of the discussion subjects in them become outfashioned, while new ones emerge. In this paper, we address the challenge of finding such emerging *and persistent* "themes", i.e. subjects that live long enough to be incorporated into a taxonomy or ontology describing the document collection. Our method is based on similarity-based clustering and cluster label construction and focusses on the identification of cluster labels that "survive" cha ...

Keywords: clustering, labeling, time series

5 Automatic expansion of domain-specific lexicons by term categorization



Henri Avancini, Alberto Lavelli, Fabrizio Sebastiani, Roberto Zanolì

May 2006 **ACM Transactions on Speech and Language Processing (TSLP)**, Volume 3 Issue 1

Publisher: ACM Press

Full text available:  [pdf\(589.28 KB\)](#) Additional Information: [full citation](#), [abstract](#), [references](#), [index terms](#)

We discuss an approach to the automatic expansion of *domain-specific lexicons*, that is, to the problem of extending, for each c_i in a predefined set $C = \{c_1, \dots, c_m\}$ of semantic domains, an initial lexicon L'_0 into a larger lexicon L'_1 . Our approach relies on *term categorization*, defined as the task of labeling previ ...

Keywords: Lexicons, machine learning, text classification


6 Accelerating XPath evaluation in any RDBMS



Torsten Grust, Maurice Van Keulen, Jens Teubner

March 2004 **ACM Transactions on Database Systems (TODS)**, Volume 29 Issue 1

Publisher: ACM Press

Full text available:  [pdf\(781.01 KB\)](#) Additional Information: [full citation](#), [appendices and supplements](#), [abstract](#), [references](#), [cited by](#), [index terms](#)

This article is a proposal for a database index structure, the *XPath accelerator*, that has been specifically designed to support the evaluation of XPath path expressions. As such, the index is capable to support *all* XPath axes (including ancestor, following, preceding-sibling, descendant-or-self, etc.). This feature lets the index stand out among related work on XML indexing structures which had a focus on the child and descendant axes only. The index has been designed with a close ...

Keywords: Main-memory databases, XML, XML indexing, XPath


7 Labeling images with a computer game



 Luis von Ahn, Laura Dabbish

April 2004 **Proceedings of the SIGCHI conference on Human factors in computing systems CHI '04**

Publisher: ACM Press

Full text available:  pdf(493.67 KB) Additional Information: [full citation](#), [abstract](#), [references](#), [citations](#), [index terms](#)

We introduce a new interactive system: a game that is fun and can be used to create valuable output. When people play the game they help determine the contents of images by providing meaningful labels for them. If the game is played as much as popular online games, we estimate that most images on the Web can be labeled in a few months. Having proper labels associated with each image on the Web would allow for more accurate image search, improve the accessibility of sites (by providing descriptio ...

Keywords: World Wide Web, distributed knowledge acquisition, image labeling, online games


8 Papers from the 2003 international conference on Database theory: Incremental validation of XML documents



 Andrey Balmin, Yannis Papakonstantinou, Victor Vianu

December 2004 **ACM Transactions on Database Systems (TODS)**, Volume 29 Issue 4

Publisher: ACM Press

Full text available:  pdf(676.95 KB) Additional Information: [full citation](#), [abstract](#), [references](#), [citations](#), [index terms](#)

We investigate the incremental validation of XML documents with respect to DTDs, specialized DTDs, and XML Schemas, under updates consisting of element tag renamings, insertions, and deletions. DTDs are modeled as extended context-free grammars. "Specialized DTDs" allow the decoupling of element types from element tags. XML Schemas are abstracted as specialized DTDs with limitations on the type assignment. For DTDs and XML Schemas, we exhibit an $O(m \log n)$ incremental valida ...

Keywords: Update, XML, validation


9 Mode transformations for vision: WebInSight:: making web images accessible



 Jeffrey P. Bigham, Ryan S. Kaminsky, Richard E. Ladner, Oscar M. Danielsson, Gordon L. Hempton

October 2006 **Proceedings of the 8th international ACM SIGACCESS conference on Computers and accessibility Assets '06**

Publisher: ACM Press

Full text available:  pdf(2.31 MB) Additional Information: [full citation](#), [abstract](#), [references](#), [cited by](#), [index terms](#)

Images without alternative text are a barrier to equal web access for blind users. To illustrate the problem, we conducted a series of studies that conclusively show that a large fraction of significant images have no alternative text. To ameliorate this problem, we introduce WebInSight, a system that automatically creates and inserts alternative text into web pages on-the-fly. To formulate alternative text for images, we present three labeling modules based on web context analysis, enhanced opt ...

Keywords: optical character recognition, transformation proxy, web accessibility, web


studies

10 Text analysis and extraction: Topic segmentation of message hierarchies for indexing and navigation support 

Jong Wook Kim, K. Selçuk Candan, Mehmet E. Dönderler

May 2005 **Proceedings of the 14th international conference on World Wide Web WWW '05**

Publisher: ACM Press

Full text available:  pdf(333.81 KB) Additional Information: [full citation](#), [abstract](#), [references](#), [citations](#), [index terms](#)

Message hierarchies in web discussion boards grow with new postings. Threads of messages evolve as new postings focus within or diverge from the original themes of the threads. Thus, just by investigating the subject headings or contents of earlier postings in a message thread, one may not be able to guess the contents of the later postings. The resulting navigation problem is further compounded for blind users who need the help of a screen reader program that can provide only a *linear* re ...

Keywords: assistive technology for blind users, discussion boards, navigational aid, segmentation

11 Fast Kernel Classifiers with Online and Active Learning 

Antoine Bordes, Seyda Ertekin, Jason Weston, Léon Bottou

December 2005 **The Journal of Machine Learning Research**, Volume 6

Publisher: MIT Press

Full text available:  pdf(577.37 KB) Additional Information: [full citation](#), [abstract](#)


Very high dimensional learning systems become theoretically possible when training examples are abundant. The computing cost then becomes the limiting factor. Any efficient learning algorithm should at least take a brief look at each example. But should all examples be given equal attention? This contribution proposes an empirical answer. We first present an online SVM algorithm based on this premise. LASVM yields competitive misclassification rates after a single pass over the training examples, ...

12 Learning classifiers: Using urls and table layout for web classification tasks 

L. K. Shih, D. R. Karger

May 2004 **Proceedings of the 13th international conference on World Wide Web WWW '04**

Publisher: ACM Press

Full text available:  pdf(357.43 KB) Additional Information: [full citation](#), [abstract](#), [references](#), [citations](#), [index terms](#)

We propose new features and algorithms for automating Web-page classification tasks such as content recommendation and ad blocking. We show that the automated classification of Web pages can be much improved if, instead of looking at their textual content, we consider each link's URL and the visual placement of those links on a referring page. These features are unusual: rather than being scalar measurements like word counts they are *tree structured*---describing the position of the item ...

Keywords: classification, news recommendation, tree structures, web applications

13 Browsing & scrolling: Summarizing personal web browsing sessions 

Mira Dontcheva, Steven M. Drucker, Geraldine Wade, David Salesin, Michael F. Cohen

October 2006 **Proceedings of the 19th annual ACM symposium on User interface**

software and technology UIST '06



Publisher: ACM Press

Full text available: pdf(676.18 KB) Additional Information: [full citation](#), [abstract](#), [references](#), [index terms](#)

We describe a system, implemented as a browser extension, that enables users to quickly and easily collect, view, and share personal Web content. Our system employs a novel interaction model, which allows a user to specify webpage extraction patterns by interactively selecting webpage elements and applying these patterns to automatically collect similar content. Further, we present a technique for creating visual summaries of the collected information by combining user labeling with predefined I ...

Keywords: information management, template-based summarization, webpage extraction patterns

14 Containment and equivalence for a fragment of XPath



Gerome Miklau, Dan Suciu

January 2004 **Journal of the ACM (JACM)**, Volume 51 Issue 1

Publisher: ACM Press

Full text available: pdf(367.27 KB) Additional Information: [full citation](#), [abstract](#), [references](#), [citations](#), [index terms](#), [review](#)

XPath is a language for navigating an XML document and selecting a set of element nodes. XPath expressions are used to query XML data, describe key constraints, express transformations, and reference elements in remote documents. This article studies the containment and equivalence problems for a fragment of the XPath query language, with applications in all these contexts. In particular, we study a class of XPath queries that contain branching, label wildcards and can express descendant relation ...

Keywords: Tree pattern matching, XPath expressions, query containment, query equivalence

15 Workload optimization: Efficient pattern mining on shared memory systems: implications for chip multiprocessor architectures



Gregory Buehrer, Yen-Kuang Chen, Srinivasan Parthasarathy, Anthony Nguyen, Amol Ghoting, Daehyun Kim

October 2006 **Proceedings of the 2006 workshop on Memory system performance and correctness MSPC '06**

Publisher: ACM Press

Full text available: pdf(232.73 KB) Additional Information: [full citation](#), [abstract](#), [references](#), [index terms](#)

Frequent pattern mining is a fundamental data mining process which has practical applications ranging from market basket data analysis to web link analysis. In this work, we show that state-of-the-art frequent pattern mining applications are inefficient when executing on a shared memory multiprocessor system, due primarily to poor utilization of the memory hierarchy. To improve the efficiency of these applications, we explore memory performance improvements, task partitioning strategies, and tas ...

16 Research sessions: Research 19: Information integration: Meaningful labeling of integrated query interfaces



Eduard C. Dragut, Clement Yu, Weiye Meng

September 2006 **Proceedings of the 32nd international conference on Very large data bases VLDB '06**

Publisher: VLDB Endowment

Full text available: pdf(3.36 MB) Additional Information: [full citation](#), [abstract](#), [references](#), [index terms](#)

The contents of Web databases are accessed through queries formulated on complex user interfaces. In many domains of interest (e.g. Auto) users are interested in obtaining information from alternative sources. Thus, they have to access many individual Web databases via query interfaces. We aim to construct automatically a well-designed query interface that integrates a set of interfaces in the same domain. This will permit users to access information uniformly from multiple sources. Earlier rese ...

17 Learning and performing by exploration: label quality measured by latent semantic analysis



Rodolfo Soto

May 1999 **Proceedings of the SIGCHI conference on Human factors in computing systems: the CHI is the limit CHI '99**

Publisher: ACM Press

Full text available: pdf(1.07 MB)

Additional Information: [full citation](#), [abstract](#), [references](#), [citations](#), [index terms](#)

Models of learning and performing by exploration assume that the semantic similarity between task descriptions and labels on display objects (e.g., menus, tool bars) controls in part the users search strategies. Nevertheless, none of the models has an objective way to compute semantic similarity. In this study, Latent Semantic Analysis (LSA) was used to compute semantic similarity between task descriptions and labels in an applications menu system. Participants performed twelve tasks ...

Keywords: cognitive models, label-following strategy, latent semantic analysis, learning by exploration, semantic similarity, usability analysis

18 Project APRIL: a progress report



Robin Haigh, Geoffrey Sampson, Eric Atwell

June 1988 **Proceedings of the 26th annual meeting on Association for Computational Linguistics**

Publisher: Association for Computational Linguistics

Full text available: pdf(766.32 KB)

Additional Information: [full citation](#), [abstract](#), [references](#)



[Publisher Site](#)

Parsing techniques based on rules defining grammaticality are difficult to use with authentic inputs, which are often grammatically messy. Instead, the APRIL system seeks a labelled tree structure which maximizes a numerical measure of conformity to statistical norms derived from a sample of parsed text. No distinction between legal and illegal trees arises: any labelled tree has a value. Because the search space is large and has an irregular geometry, APRIL seeks the best tree using simulated a ...

19 Image Categorization by Learning and Reasoning with Regions



Yixin Chen, James Z. Wang

December 2004 **The Journal of Machine Learning Research**, Volume 5

Publisher: MIT Press

Full text available: pdf(1.31 MB)

Additional Information: [full citation](#), [abstract](#), [references](#), [citations](#)

Designing computer programs to automatically categorize images using low-level features is a challenging research topic in computer vision. In this paper, we present a new learning technique, which extends Multiple-Instance Learning (MIL), and its application to the problem of region-based image categorization. Images are viewed as bags, each of which contains a number of instances corresponding to regions obtained from image segmentation. The standard MIL problem assumes that a bag is labeled p ...

20

Meaningful change detection in structured data





Sudarshan S. Chawathe, Hector Garcia-Molina

June 1997 **ACM SIGMOD Record**, Proceedings of the 1997 ACM SIGMOD international conference on Management of data SIGMOD '97, Volume 26 Issue 2

Publisher: ACM Press

Full text available: pdf (1.67 MB)

Additional Information: [full citation](#), [abstract](#), [references](#), [citations](#), [index terms](#)

Detecting changes by comparing data snapshots is an important requirement for difference queries, active databases, and version and configuration management. In this paper we focus on detecting meaningful changes in hierarchically structured data, such as nested-object data. This problem is much more challenging than the corresponding one for relational or flat-file data. In order to describe changes better, we base our work not just on the traditional "atomic" insert, delete, u ...

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Relevance scale ☐ ☐ ☐ ☐ ☐

41 [Graph mining: Laws, generators, and algorithms](#)



Deepayan Chakrabarti, Christos Faloutsos

June 2006 **ACM Computing Surveys (CSUR)**, Volume 38 Issue 1

Publisher: ACM Press

Full text available: [pdf\(910.68 KB\)](#) Additional Information: [full citation](#), [abstract](#), [references](#), [index terms](#)

How does the Web look? How could we tell an abnormal social network from a normal one? These and similar questions are important in many fields where the data can intuitively be cast as a graph; examples range from computer networks to sociology to biology and many more. Indeed, any $M : N$ relation in database terminology can be represented as a graph. A lot of these questions boil down to the following: "How can we generate synthetic but realistic graphs?" To answer thi ...

Keywords: Generators, graphs, patterns, social networks

42 [User studies: When will information retrieval be "good enough"?](#)



James Allan, Ben Carterette, Joshua Lewis

August 2005 **Proceedings of the 28th annual international ACM SIGIR conference on Research and development in information retrieval SIGIR '05**

Publisher: ACM Press

Full text available: [pdf\(296.03 KB\)](#) Additional Information: [full citation](#), [abstract](#), [references](#), [citations](#), [index terms](#)

We describe a user study that examined the relationship between the quality of an Information Retrieval system and the effectiveness of its users in performing a task. The task involves finding answer facets of questions pertaining to a collection of newswire documents over a six month period. We artificially created sets of ranked lists at increasing levels of quality by blending the output of a state-of-the-art retrieval system with truth data created by annotators. Subjects performed the task ...

Keywords: information retrieval, passage retrieval, performance evaluation, user study

43 [The complexity of acyclic conjunctive queries](#)



Georg Gottlob, Nicola Leone, Francesco Scarcello

May 2001 **Journal of the ACM (JACM)**, Volume 48 Issue 3

Publisher: ACM PressFull text available:  pdf(566.16 KB)Additional Information: [full citation](#), [abstract](#), [references](#), [citations](#), [index terms](#), [review](#)

This paper deals with the evaluation of acyclic Boolean conjunctive queries in relational databases. By well-known results of Yannakakis[1981], this problem is solvable in polynomial time; its precise complexity, however, has not been pinpointed so far. We show that the problem of evaluating acyclic Boolean conjunctive queries is complete for LOGCFL, the class of decision problems that are logspace-reducible to a context-free language. Since LOGCFL is contained in AC1 and NC2, the eva ...

Keywords: CSP, LOGCFL, acyclic hypergraph, algorithm, bounded treewidth, conjunctive query, constraint, constraint satisfaction problem, database theory, degree of cyclicity, hinge, join tree, parallel algorithm, query containment, query-idth, subsumption, tree query

44 Hashing by proximity to process duplicates in spatial databases



Walid G. Aref, Hanan Samet

November 1994 **Proceedings of the third international conference on Information and knowledge management CIKM '94****Publisher:** ACM PressFull text available:  pdf(952.84 KB)Additional Information: [full citation](#), [abstract](#), [references](#), [citations](#), [index terms](#)

In a spatial database, an object may extend arbitrarily in space. As a result, many spatial data structures (e.g., the quadtree, the cell tree, the R+-tree) represent an object by partitioning it into multiple, yet simple, pieces, each of which is stored separately inside the data structure. Many operations on these data structures are likely to produce duplicate results because of the multiplicity of object pieces. A novel approach for duplicate processing based on pro ...

45 Text categorization: Using asymmetric distributions to improve text classifier probability estimates



Paul N. Bennett

July 2003 **Proceedings of the 26th annual international ACM SIGIR conference on Research and development in information retrieval SIGIR '03****Publisher:** ACM PressFull text available:  pdf(281.97 KB)Additional Information: [full citation](#), [abstract](#), [references](#), [citations](#), [index terms](#)


Text classifiers that give probability estimates are more readily applicable in a variety of scenarios. For example, rather than choosing one set decision threshold, they can be used in a Bayesian risk model to issue a run-time decision which minimizes a user-specified cost function dynamically chosen at prediction time. However, the quality of the probability estimates is crucial. We review a variety of standard approaches to converting scores (and poor probability estimates) from text classifi ...

Keywords: active learning, classifier combination, cost-sensitive learning, text classification

46 Domain-independent data cleaning via analysis of entity-relationship graph



Dmitri V. Kalashnikov, Sharad Mehrotra

June 2006 **ACM Transactions on Database Systems (TODS)**, Volume 31 Issue 2**Publisher:** ACM PressFull text available:  pdf(1.27 MB)Additional Information: [full citation](#), [appendices and supplements](#),

[abstract](#), [references](#), [index terms](#)

In this article, we address the problem of *reference disambiguation*. Specifically, we consider a situation where entities in the database are referred to using descriptions (e.g., a set of instantiated attributes). The objective of reference disambiguation is to identify the unique entity to which each description corresponds. The key difference between the approach we propose (called ReIDC) and the traditional techniques is that ReIDC analyzes not only object features but also inter-obje ...

Keywords: Connection strength, ReIDC, data cleaning, entity resolution, graph analysis, reference disambiguation, relationship analysis

47 [Logic and logic programming](#)



J. A. Robinson

March 1992 **Communications of the ACM**, Volume 35 Issue 3**Publisher:** ACM PressFull text available: [pdf\(6.56 MB\)](#) Additional Information: [full citation](#), [references](#), [citings](#), [index terms](#)

Keywords: unification

48 [Integer programming vs. expert systems: an experimental comparison](#)



Vasant Dhar, Nicky Ranganathan

March 1990 **Communications of the ACM**, Volume 33 Issue 3**Publisher:** ACM PressFull text available: [pdf\(1.46 MB\)](#) Additional Information: [full citation](#), [abstract](#), [references](#), [citings](#), [index terms](#), [review](#)

Expert system and integer programming formulations of an NP-complete constraint satisfaction problem are contrasted in terms of performance, ability to encode complex preferences, control of reasoning, and supporting incremental modification of solutions in response to changing input data.

49 [Formal models: Adapting ranking SVM to document retrieval](#)



Yunbo Cao, Jun Xu, Tie-Yan Liu, Hang Li, Yalou Huang, Hsiao-Wuen Hon

August 2006 **Proceedings of the 29th annual international ACM SIGIR conference on Research and development in information retrieval SIGIR '06****Publisher:** ACM PressFull text available: [pdf\(402.44 KB\)](#) Additional Information: [full citation](#), [abstract](#), [references](#), [index terms](#)

The paper is concerned with applying learning to rank to document retrieval. Ranking SVM is a typical method of learning to rank. We point out that there are two factors one must consider when applying Ranking SVM, in general a "learning to rank" method, to document retrieval. First, correctly ranking documents on the top of the result list is crucial for an Information Retrieval system. One must conduct training in a way that such ranked results are accurate. Second, the number of relevant docu ...

Keywords: information retrieval, loss function, ranking SVM


50 [Symbolic evaluation and the global value graph](#)



John H. Reif, Harry R. Lewis

January 1977 **Proceedings of the 4th ACM SIGACT-SIGPLAN symposium on Principles of programming languages POPL '77**

Publisher: ACM Press

Full text available:  [pdf\(1.34 MB\)](#)

Additional Information: [full citation](#), [abstract](#), [references](#), [citations](#)

This paper is concerned with difficult global flow problems which require the symbolic evaluation of programs. We use, as is common in global flow analysis, a model in which the expressions computed are specified, but the flow of control is indicated only by a directed graph whose nodes are blocks of assignment statements. We show that if such a program model is interpreted in the domain of integer arithmetic then many natural global flow problems are unsolvable. We then develop a direct (non-iterative) ...

51 On the optimal nesting order for computing N-relational joins



Toshihide Ibaraki, Tiko Kameda

September 1984 **ACM Transactions on Database Systems (TODS)**, Volume 9 Issue 3

Publisher: ACM Press

Full text available:  [pdf\(1.39 MB\)](#)

Additional Information: [full citation](#), [abstract](#), [references](#), [citations](#), [index terms](#), [review](#)

Using the nested loops method, this paper addresses the problem of minimizing the number of page fetches necessary to evaluate a given query to a relational database. We first propose a data structure whereby the number of page fetches required for query evaluation is substantially reduced and then derive a formula for the expected number of page fetches. An optimal solution to our problem is the nesting order of relations in the evaluation program, which minimizes the number of page fetches ...

52 Ultraconservative online algorithms for multiclass problems



Koby Crammer, Yoram Singer

March 2003 **The Journal of Machine Learning Research**, Volume 3

Publisher: MIT Press

Full text available:  [pdf\(255.98 KB\)](#)

Additional Information: [full citation](#), [abstract](#), [citations](#), [index terms](#)

In this paper we study a paradigm to generalize online classification algorithms for binary classification problems to multiclass problems. The particular hypotheses we investigate maintain one prototype vector per class. Given an input instance, a multiclass hypothesis computes a similarity-score between each prototype and the input instance and sets the predicted label to be the index of the prototype achieving the highest similarity. To design and analyze the learning algorithms in this paper ...

53 Research session 4: data integration & interoperability: Computing cores for data exchange: new algorithms and practical solutions



Georg Gottlob

June 2005 **Proceedings of the twenty-fourth ACM SIGMOD-SIGACT-SIGART symposium on Principles of database systems PODS '05**

Publisher: ACM Press

Full text available:  [pdf\(239.10 KB\)](#)

Additional Information: [full citation](#), [abstract](#), [references](#), [citations](#)

Data Exchange is the problem of inserting data structured under a source schema into a target schema of different structure (possibly with integrity constraints), while reflecting the source data as accurately as possible. We study computational issues related to data exchange in the setting of Fagin, Kolaitis, and Popa(PODS'03). We use the technique of hypertree decompositions to derive improved algorithms for computing the core of a relational instance with labeled nulls, a problem we show to ...


54 A query language and optimization techniques for unstructured data



Peter Buneman, Susan Davidson, Gerd Hillebrand, Dan Suciu

June 1996 **ACM SIGMOD Record , Proceedings of the 1996 ACM SIGMOD international conference on Management of data SIGMOD '96**, Volume 25 Issue 2

Publisher: ACM Press

Full text available:  [pdf\(1.19 MB\)](#) Additional Information: [full citation](#), [abstract](#), [references](#), [citations](#), [index terms](#)

A new kind of data model has recently emerged in which the database is not constrained by a conventional schema. Systems like ACeDB, which has become very popular with biologists, and the recent Tsimmis proposal for data integration organize data in tree-like structures whose components can be used equally well to represent sets and tuples. Such structures allow great flexibility in data representation. What query language is appropriate for such structures? Here we propose a simple language Un ...

55 [Improved Parameterized Complexity of the Maximum Agreement Subtree and Maximum Compatible Tree Problems](#) 

Vincent Berry, Francois Nicolas

July 2006 **IEEE/ACM Transactions on Computational Biology and Bioinformatics (TCBB)**, Volume 3 Issue 3

Publisher: IEEE Computer Society Press

Full text available:  [pdf\(349.36 KB\)](#) Additional Information: [full citation](#), [abstract](#), [references](#), [index terms](#)

Given a set of evolutionary trees on a same set of taxa, the maximum agreement subtree problem (MAST), respectively, maximum compatible tree problem (MCT), consists of finding a largest subset of taxa such that all input trees restricted to these taxa are isomorphic, respectively compatible. These problems have several applications in phylogenetics such as the computation of a consensus of phylogenies obtained from different data sets, the identification of species subjected to horizontal gene t ...


Keywords: Phylogenetics, algorithms, consensus, pattern matching, trees, compatibility, fixed-parameter tractability.

56 [Research sessions: XML PubSub and indexing: Incremental maintenance of XML structural indexes](#) 

Ke Yi, Hao He, Ioana Stanoi, Jun Yang

June 2004 **Proceedings of the 2004 ACM SIGMOD international conference on Management of data SIGMOD '04**

Publisher: ACM Press

Full text available:  [pdf\(260.24 KB\)](#) Additional Information: [full citation](#), [abstract](#), [references](#), [citations](#)


Increasing popularity of XML in recent years has generated much interest in query processing over graph-structured data. To support efficient evaluation of path expressions, many structural indexes have been proposed. The most popular ones are the 1-index, based on the notion of graph bisimilarity, and the recently proposed A(k)-index, based on the notion of local similarity to provide a trade-off between index size and query answering power. For these indexes to be practical, we need eff ...

57 [Long papers: multimodal interaction: Multimodal new vocabulary recognition through speech and handwriting in a whiteboard scheduling application](#) 

Edward C. Kaiser

January 2005 **Proceedings of the 10th international conference on Intelligent user interfaces IUI '05**

Publisher: ACM Press

Full text available:  [pdf\(428.63 KB\)](#) Additional Information: [full citation](#), [abstract](#), [references](#), [citations](#), [index terms](#)

Our goal is to automatically recognize and enroll new vocabulary in a multimodal interface. To accomplish this our technique aims to leverage the mutually disambiguating aspects of co-referenced, co-temporal handwriting and speech. The co-referenced semantics are spatially and temporally determined by our multimodal interface for schedule chart creation. This paper motivates and describes our technique for recognizing out-of-

vocabulary (OOV) terms and enrolling them dynamically in the system. We ...

Keywords: multimodal interaction, mutual disambiguation, vocabulary learning

58 Oblivious data structures: applications to cryptography



Daniele Micciancio

May 1997 **Proceedings of the twenty-ninth annual ACM symposium on Theory of computing STOC '97**

Publisher: ACM Press

Full text available: pdf(1.49 MB) Additional Information: [full citation](#), [references](#), [citations](#), [index terms](#)

59 Direct transitive closure algorithms: design and performance evaluation



Rakesh Agrawal, Shaul Dar, H. V. Jagadish

September 1990 **ACM Transactions on Database Systems (TODS)**, Volume 15 Issue 3

Publisher: ACM Press

Full text available: pdf(2.58 MB) Additional Information: [full citation](#), [abstract](#), [references](#), [citations](#), [index terms](#)

We present new algorithms for computing transitive closure of large database relations. Unlike iterative algorithms, such as the seminaive and logarithmic algorithms, the termination of our algorithms does not depend on the length of paths in the underlying graph (hence the name direct algorithms). Besides reachability computations, the proposed algorithms can also be used for solving path problems. We discuss issues related to the efficient implementation of these algorithm ...

Keywords: deductive databases, query processing, transitive closure

60 Representing and querying XML with incomplete information



Serge Abiteboul, Luc Segoufin, Victor Vianu

March 2006 **ACM Transactions on Database Systems (TODS)**, Volume 31 Issue 1

Publisher: ACM Press

Full text available: pdf(685.60 KB) Additional Information: [full citation](#), [abstract](#), [references](#), [index terms](#)

We study the representation and querying of XML with incomplete information. We consider a simple model for XML data and their DTDs, a very simple query language, and a representation system for incomplete information in the spirit of the representations systems developed by Imielinski and Lipski [1984] for relational databases. In the scenario we consider, the incomplete information about an XML document is continuously enriched by successive queries to the document. We show that our representa ...

Keywords: Incomplete information, XML

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John Colter, Netscape Navigator

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Relevance scale

- 1 Research session: XML query processing #2: From region encoding to extended dewey: on efficient processing of XML twig pattern matching

Jiaheng Lu, Tok Wang Ling, Chee-Yong Chan, Ting Chen

August 2005 **Proceedings of the 31st international conference on Very large data bases VLDB '05**

Publisher: VLDB Endowment

Full text available: pdf(353.14 KB)

Additional Information: [full citation](#), [abstract](#), [references](#), [citations](#), [index terms](#)

Finding all the occurrences of a twig pattern in an XML database is a core operation for efficient evaluation of XML queries. A number of algorithms have been proposed to process a twig query based on *region encoding* labeling scheme. While region encoding supports efficient determination of structural relationship between two elements, we observe that the information within a single label is very *limited*. In this paper, we propose a new labeling scheme, called *extended Dewey*.

- ## 2 The relational model for database management: version 2

E. F. Codd

January 1990 Book

Publisher: Addison-Wesley Longman Publishing Co., Inc.

Full text available: pdf(28.61 MB).

Additional Information: [full citation](#), [abstract](#), [references](#), [citations](#), [index terms](#), [review](#)

From the Preface (See Front Matter for full Preface)

An important adjunct to precision is a sound theoretical foundation. The relational model is solidly based on two parts of mathematics: firstorder predicate logic and the theory of relations. This book, however, does not dwell on the theoretical foundations, but rather on all the features of the relational model that I now perceive as important for database users, and therefore for DBMS vendors. My perceptions result from 20 y ...

- ### **3 Accelerating XPath evaluation in any RDBMS**



Torsten Grust, Maurice Van Keulen, Jens Teubner

March 2004 **ACM Transactions on Database Systems (TODS)**, Volume 29 Issue 1

Publisher: ACM Press

Full text available: pdf(781.01 KB)

Additional Information: full citation, appendices and supplements,
abstract, references, cited by, index terms

This article is a proposal for a database index structure, the *XPath accelerator*, that has been specifically designed to support the evaluation of XPath path expressions. As such, the index is capable to support *all* XPath axes (including ancestor, following, preceding-sibling, descendant-or-self, etc.). This feature lets the index stand out among related work on XML indexing structures which had a focus on the child and descendant axes only. The index has been designed with a close ...

Keywords: Main-memory databases, XML, XML indexing, XPath

4 Papers from the 2003 international conference on Database theory: Incremental validation of XML documents



Andrey Balmin, Yannis Papakonstantinou, Victor Vianu

December 2004 **ACM Transactions on Database Systems (TODS)**, Volume 29 Issue 4

Publisher: ACM Press

Full text available: pdf(676.95 KB) Additional Information: [full citation](#), [abstract](#), [references](#), [citations](#), [index terms](#)

We investigate the incremental validation of XML documents with respect to DTDs, specialized DTDs, and XML Schemas, under updates consisting of element tag renamings, insertions, and deletions. DTDs are modeled as extended context-free grammars. "Specialized DTDs" allow the decoupling of element types from element tags. XML Schemas are abstracted as specialized DTDs with limitations on the type assignment. For DTDs and XML Schemas, we exhibit an $O(m \log n)$ incremental valida ...

Keywords: Update, XML, validation

5 Containment and equivalence for a fragment of XPath



Gerome Miklau, Dan Suciu

January 2004 **Journal of the ACM (JACM)**, Volume 51 Issue 1

Publisher: ACM Press

Full text available: pdf(367.27 KB) Additional Information: [full citation](#), [abstract](#), [references](#), [citations](#), [index terms](#), [review](#)

XPath is a language for navigating an XML document and selecting a set of element nodes. XPath expressions are used to query XML data, describe key constraints, express transformations, and reference elements in remote documents. This article studies the containment and equivalence problems for a fragment of the XPath query language, with applications in all these contexts. In particular, we study a class of XPath queries that contain branching, label wildcards and can express descendant relation ...

Keywords: Tree pattern matching, XPath expressions, query containment, query equivalence

6 Labeling images with a computer game



Luis von Ahn, Laura Dabbish

April 2004 **Proceedings of the SIGCHI conference on Human factors in computing systems CHI '04**

Publisher: ACM Press

Full text available: pdf(493.67 KB) Additional Information: [full citation](#), [abstract](#), [references](#), [citations](#), [index terms](#)

We introduce a new interactive system: a game that is fun and can be used to create valuable output. When people play the game they help determine the contents of images by providing meaningful labels for them. If the game is played as much as popular online

games, we estimate that most images on the Web can be labeled in a few months. Having proper labels associated with each image on the Web would allow for more accurate image search, improve the accessibility of sites (by providing descriptio ...

Keywords: World Wide Web, distributed knowledge acquisition, image labeling, online games

7 Learning classifiers: Using urls and table layout for web classification tasks



L. K. Shih, D. R. Karger

May 2004 **Proceedings of the 13th international conference on World Wide Web WWW '04**

Publisher: ACM Press

Full text available: pdf(357.43 KB) Additional Information: [full citation](#), [abstract](#), [references](#), [citations](#), [index terms](#)

We propose new features and algorithms for automating Web-page classification tasks such as content recommendation and ad blocking. We show that the automated classification of Web pages can be much improved if, instead of looking at their textual content, we consider each links's URL and the visual placement of those links on a referring page. These features are unusual: rather than being scalar measurements like word counts they are *tree structured*---describing the position of the item ...

Keywords: classification, news recommendation, tree structures, web applications

8 Research sessions: XML query efficiency: BLAS: an efficient XPath processing system



Yi Chen, Susan B. Davidson, Yifeng Zheng

June 2004 **Proceedings of the 2004 ACM SIGMOD international conference on Management of data SIGMOD '04**

Publisher: ACM Press

Full text available: pdf(179.44 KB) Additional Information: [full citation](#), [abstract](#), [references](#), [citations](#)

We present BLAS, a Bi-LABELing based System, for efficiently processing complex XPath queries over XML data. BLAS uses P-labeling to process queries involving consecutive child axes, and D-labeling to process queries involving descendant axes traversal. The XML data is stored in labeled form, and indexed to optimize descendent axis traversals. Three algorithms are presented for translating complex XPath queries to SQL expressions, and two alternate query engines are provided. Experimental result ...

9 Research sessions: Research 19: Information integration: Meaningful labeling of integrated query interfaces



Eduard C. Dragut, Clement Yu, Weiyi Meng

September 2006 **Proceedings of the 32nd international conference on Very large data bases VLDB '06**

Publisher: VLDB Endowment

Full text available: pdf(3.36 MB) Additional Information: [full citation](#), [abstract](#), [references](#), [index terms](#)

The contents of Web databases are accessed through queries formulated on complex user interfaces. In many domains of interest (e.g. Auto) users are interested in obtaining information from alternative sources. Thus, they have to access many individual Web databases via query interfaces. We aim to construct automatically a well-designed query interface that integrates a set of interfaces in the same domain. This will permit users to access information uniformly from multiple sources. Earlier rese ...

10 Invited talk: The Lixto data extraction project: back and forth between theory and



practice

Georg Gottlob, Christoph Koch, Robert Baumgartner, Marcus Herzog, Sergio Flesca
June 2004 **Proceedings of the twenty-third ACM SIGMOD-SIGACT-SIGART
symposium on Principles of database systems PODS '04**

Publisher: ACM Press

Full text available: pdf(430.70 KB) Additional Information: [full citation](#), [abstract](#), [references](#), [citations](#)

We present the Lixto project, which is both a research project in database theory and a commercial enterprise that develops Web data extraction (wrapping) and Web service definition software. We discuss the project's main motivations and ideas, in particular the use of a logic-based framework for wrapping. Then we present theoretical results on monadic datalog over trees and on Elog, its close relative which is used as the internal wrapper language in the Lixto system. These results include both ...



11 Subtext: uncovering the simplicity of programming



Jonathan Edwards

October 2005 **ACM SIGPLAN Notices , Proceedings of the 20th annual ACM SIGPLAN
conference on Object oriented programming, systems, languages, and
applications OOPSLA '05**, Volume 40 Issue 10

Publisher: ACM Press

Full text available: pdf(293.12 KB) Additional Information: [full citation](#), [abstract](#), [references](#), [citations](#), [index terms](#)

Representing programs as text strings makes programming harder than it has to be. The source text of a program is far removed from its behavior. Bridging this conceptual gulf is what makes programming so inhumanly difficult -- we are not compilers. *Subtext* is a new medium in which the representation of a program is the same thing as its execution. Like a spreadsheet, a program is visible and alive, constantly executing even as it is edited. Program edits are coherent semantic transformations ...

Keywords: copying, non-textual programming, prototypes, visual programming



12 Meaningful change detection in structured data



Sudarshan S. Chawathe, Hector Garcia-Molina

June 1997 **ACM SIGMOD Record , Proceedings of the 1997 ACM SIGMOD international
conference on Management of data SIGMOD '97**, Volume 26 Issue 2

Publisher: ACM Press

Full text available: pdf(1.67 MB) Additional Information: [full citation](#), [abstract](#), [references](#), [citations](#), [index terms](#)

Detecting changes by comparing data snapshots is an important requirement for difference queries, active databases, and version and configuration management. In this paper we focus on detecting meaningful changes in hierarchically structured data, such as nested-object data. This problem is much more challenging than the corresponding one for relational or flat-file data. In order to describe changes better, we base our work not just on the traditional "atomic" insert, delete, u ...



13 The theory of parsing, translation, and compiling

Alfred V. Aho, Jeffrey D. Ullman
January 1972 Book

Publisher: Prentice-Hall, Inc.

Full text available: pdf(98.28 MB) Additional Information: [full citation](#), [abstract](#), [references](#), [citations](#), [index terms](#)

From volume 1 Preface (See Front Matter for full Preface)



This book is intended for a one or two semester course in compiling theory at the senior or graduate level. It is a theoretically oriented treatment of a practical subject. Our motivation for making it so is threefold.

(1) In an area as rapidly changing as Computer Science, sound pedagogy demands that courses emphasize ideas, rather than implementation details. It is our hope that the algorithms and concepts present ...

14 A decentralized model for information flow control



Andrew C. Myers, Barbara Liskov

October 1997 **ACM SIGOPS Operating Systems Review , Proceedings of the sixteenth ACM symposium on Operating systems principles SOSP '97**, Volume 31 Issue 5

Publisher: ACM Press

Full text available: pdf(2.24 MB) Additional Information: [full citation](#), [references](#), [citations](#), [index terms](#)

15 Declarative programming in a prototype-instance system: object-oriented



programming without writing methods

Brad A. Myers, Dario A. Giuse, Brad Vander Zanden

October 1992 **ACM SIGPLAN Notices , conference proceedings on Object-oriented programming systems, languages, and applications OOPSLA '92**, Volume 27 Issue 10

Publisher: ACM Press

Full text available: pdf(2.19 MB) Additional Information: [full citation](#), [references](#), [citations](#), [index terms](#)

16 Early aspects, models and design: Semantics-based composition for aspect-oriented requirements engineering



Ruzanna Chitchyan, Awais Rashid, Paul Rayson, Robert Waters

March 2007 **Proceedings of the 6th international conference on Aspect-oriented software development AOSD '07**

Publisher: ACM Press

Full text available: pdf(373.53 KB) Additional Information: [full citation](#), [abstract](#), [references](#), [index terms](#)

In this paper, we discuss the limitations of the current syntactic composition mechanisms in aspect-oriented requirements engineering (AORE). We highlight that such composition mechanisms not only increase coupling between aspects and base concerns but are also insufficient to capture the intentionality of the aspect composition. Furthermore, they force the requirements engineer to reason about semantic influences and trade-offs among aspects from a syntactic perspective. We present a requirement ...

Keywords: aspect-oriented requirements engineering, expressive pointcuts, natural language processing, requirements composition

17 Compiler construction: an advanced course



F. L. Bauer, F. L. De Remer, M. Griffiths, U. Hill, J. J. Horning, C. H. A. Koster, W. M. McKeeman, P. C. Poole, W. M. Waite, G. Goos, J. Hartmanis
January 1974 Book

Publisher: Springer-Verlag New York, Inc.

Full text available: pdf(65.62 MB) Additional Information: [full citation](#), [abstract](#), [references](#), [cited by](#)

The Advanced Course took place from March 4 to 15, 1974 and was organized by the Mathematical Institute of the Technical University of Munich and the Leibniz Computing

Center of the Bavarian Academy of Sciences, in co-operation with the European Communities, sponsored by the Ministry for Research and Technology of the Federal Republic of Germany and by the European Research Office, London.


18 Word reordering and a dynamic programming beam search algorithm for statistical machine translation



Christoph Tillmann, Hermann Ney

March 2003 **Computational Linguistics**, Volume 29 Issue 1

Publisher: MIT Press

Full text available:  [pdf\(877.85 KB\)](#) Additional Information: [full citation](#), [abstract](#), [references](#), [citations](#), [index terms](#)

In this article, we describe an efficient beam search algorithm for statistical machine translation based on dynamic programming (DP). The search algorithm uses the translation model presented in Brown et al. (1993). Starting from a DP-based solution to the traveling-salesman problem, we present a novel technique to restrict the possible word reorderings between source and target language in order to achieve an efficient search algorithm. Word reordering restrictions especially useful for the tr ...

19 Semiautomatic labelling of semantic features



Arantza Díaz de Ilarraza, Aingeru Mayor, Kepa Sarasola

August 2002 **Proceedings of the 19th international conference on Computational linguistics - Volume 1**

Publisher: Association for Computational Linguistics

Full text available:  [pdf\(212.73 KB\)](#) Additional Information: [full citation](#), [abstract](#), [references](#)

This paper presents the strategy and design of a highly efficient semiautomatic method for labelling the semantic features of common nouns, using semantic relationships between words, and based on the information extracted from an electronic monolingual dictionary. The method, that uses genus data, specific relators and synonymy information, obtains an accuracy of over 99% and a scope of 68,2% with regard to all the common nouns contained in a real corpus of over 1 million words, after the manua ...



20 Using focus to generate complex and simple sentences



Marcia A. Derr, Kathleen R. McKeown

July 1984 **Proceedings of the 22nd annual meeting on Association for Computational Linguistics , Proceedings of the 10th international conference on Computational linguistics**

Publisher: Association for Computational Linguistics

Full text available:  [pdf\(671.35 KB\)](#) Additional Information: [full citation](#), [abstract](#), [references](#), [citations](#)
 [Publisher Site](#)





One problem for the generation of natural language text is determining when to use a sequence of simple sentences and when a single complex one is more appropriate. In this paper, we show how focus of attention is one factor that influences this decision and describe its implementation in a system that generates explanations for a student advisor expert system. The implementation uses tests on functional information such as focus of attention within the Prolog definite clause grammar formalism t ...

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21 [Declarative visualization in the shared dataspace paradigm](#)



Gruia-Catalin Roman, Kenneth C. Cox

May 1989 **Proceedings of the 11th international conference on Software engineering ICSE '89**

Publisher: ACM Press

Full text available: [pdf\(1.55 MB\)](#)

Additional Information: [full citation](#), [references](#), [citations](#), [index terms](#)

22 [Annotator: an AI approach to engineering drawing annotation](#)



Barbara J. Vivier, Melvin K. Simmons, Sharon A. Masline

June 1988 **Proceedings of the 1st international conference on Industrial and engineering applications of artificial intelligence and expert systems - Volume 1 IEA/AIE '88**

Publisher: ACM Press

Full text available: [pdf\(655.14 KB\)](#)

Additional Information: [full citation](#), [abstract](#), [references](#), [index terms](#)

Annotator is a prototype to investigate the application of AI techniques to the annotation of engineering drawings. In particular, Annotator addresses drawings of piping systems such as those for chemical plants or waste treatment facilities. The isometric representation of the piping system is selected because it is the most numerous type of drawing in plant design. Knowledge contained in hierarchies represents the CAD model of the piping system, features of the model and features of the d ...

23 [Translator writing systems](#)



Jerome Feldman, David Gries

February 1968 **Communications of the ACM**, Volume 11 Issue 2

Publisher: ACM Press

Full text available: [pdf\(4.47 MB\)](#)

Additional Information: [full citation](#), [abstract](#), [references](#), [citations](#)

A critical review of recent efforts to automate the writing of translators of programming languages is presented. The formal study of syntax and its application to translator writing are discussed in Section II. Various approaches to automating the postsyntactic (semantic) aspects of translator writing are discussed in Section III, and several related topics in Section IV.

Keywords: compiler compiler-compiler, generator, macroprocessor, meta-assembler, metacompiler, parser, semantics, syntactic analysis, syntax, syntax-directed, translator,

translator writing system

24 Web Clustering, filtering and applications: A search result clustering method using informatively named entities



Hiroyuki Toda, Ryoji Kataoka

November 2005 **Proceedings of the 7th annual ACM international workshop on Web information and data management WIDM '05**

Publisher: ACM Press

Full text available: pdf(213.23 KB) Additional Information: [full citation](#), [abstract](#), [references](#), [citations](#), [index terms](#)

Clustering the results of a search helps the user to overview the information returned. In this paper, we regard the clustering task as indexing the search results. Here, an index means a structured label list that can makes it easier for the user to comprehend the labels and search results. To realize this goal, we make three proposals. First is to use Named Entity Extraction for term extraction. Second is a new label selecting criterion based on importance in the search result and the relation ...

Keywords: named entity, search result clustering

25 Paper session DB-4 (databases): XML and query processing: Interconnection semantics for keyword search in XML



Sara Cohen, Yaron Kanza, Benny Kimelfeld, Yehoshua Sagiv

October 2005 **Proceedings of the 14th ACM international conference on Information and knowledge management CIKM '05**

Publisher: ACM Press

Full text available: pdf(214.90 KB) Additional Information: [full citation](#), [abstract](#), [references](#), [citations](#), [index terms](#)

A framework for describing semantic relationships among nodes in XML documents is presented. In contrast to earlier work, the XML documents may have ID references (i.e., they correspond to graphs and not just trees). A specific *interconnection semantics* in this framework can be defined explicitly or derived automatically. The main advantage of interconnection semantics is the ability to pose queries on XML data in the style of keyword search. Several methods for automatically deriving int ...

Keywords: XML, interconnection semantics, keyword search

26 The complexity of acyclic conjunctive queries



Georg Gottlob, Nicola Leone, Francesco Scarcello

May 2001 **Journal of the ACM (JACM)**, Volume 48 Issue 3

Publisher: ACM Press

Full text available: pdf(566.16 KB) Additional Information: [full citation](#), [abstract](#), [references](#), [citations](#), [index terms](#), [review](#)

This paper deals with the evaluation of acyclic Boolean conjunctive queries in relational databases. By well-known results of Yannakakis[1981], this problem is solvable in polynomial time; its precise complexity, however, has not been pinpointed so far. We show that the problem of evaluating acyclic Boolean conjunctive queries is complete for LOGCFL, the class of decision problems that are logspace-reducible to a context-free language. Since LOGCFL is contained in AC1 and NC2, the eva ...

Keywords: CSP, LOGCFL, acyclic hypergraph, algorithm, bounded treewidth, conjunctive query, constraint, constraint satisfaction problem, database theory, degree of cyclicity,

hinge, join tree, parallel algorithm, query containment, query-idth, subsumption, tree query

27 Taxonomic syntax for first order inference



David McAllester, Robert Givan

April 1993 **Journal of the ACM (JACM)**, Volume 40 Issue 2

Publisher: ACM Press

Full text available:  pdf(2.89 MB)

Additional Information: [full citation](#), [abstract](#), [references](#), [citations](#), [index terms](#)

A new polynomial time decidable fragment of first order logic is identified, and a general method for using polynomial time inference procedures in knowledge representation systems is presented. The results shown in this paper indicate that a nonstandard "taxonomic" syntax is essential in constructing natural and powerful polynomial time inference procedures. The central role of taxonomic syntax in the polynomial time inference procedures provides technical support for the often ...

Keywords: automated reasoning, inference rules, machine inference, mechanical verification, polynomial time algorithms, proof systems, proof theory, theorem proving

28 Graph mining: Laws, generators, and algorithms



Deepayan Chakrabarti, Christos Faloutsos

June 2006 **ACM Computing Surveys (CSUR)**, Volume 38 Issue 1

Publisher: ACM Press

Full text available:  pdf(910.68 KB)

Additional Information: [full citation](#), [abstract](#), [references](#), [index terms](#)

How does the Web look? How could we tell an abnormal social network from a normal one? These and similar questions are important in many fields where the data can intuitively be cast as a graph; examples range from computer networks to sociology to biology and many more. Indeed, any $M : N$ relation in database terminology can be represented as a graph. A lot of these questions boil down to the following: "How can we generate synthetic but realistic graphs?" To answer thi ...

Keywords: Generators, graphs, patterns, social networks

29 A tool for the deterministic scheduling of real-time programs implemented as periodic



Ada tasks

E. W. Giering, T. P. Baker

September 1994 **ACM SIGAda Ada Letters , Proceedings of the second international symposium on Environments and tools for Ada SETA2**, Volume XIV Issue S1

Publisher: ACM Press

Full text available:  pdf(1.57 MB)

Additional Information: [full citation](#), [abstract](#), [index terms](#)

In this paper, we describe an experimental tool for the scheduling and execution of real-time programs on a single processor. This tool accepts a real-time program implemented as a system of periodic tasks written in a subset of Ada. It translates the program into equivalent Ada source code in which the task bodies are executed by a run-time dispatcher according to a deterministic, cyclic schedule. The schedule is represented as a table of scheduling actions describing the execution of the progra ...


30 Logic and logic programming



J. A. Robinson

March 1992 **Communications of the ACM**, Volume 35 Issue 3

Publisher: ACM Press

Full text available:  [pdf\(6.56 MB\)](#)


Additional Information: [full citation](#), [references](#), [citations](#), [index terms](#)

Keywords: unification

31 [A query language and optimization techniques for unstructured data](#) 

 Peter Buneman, Susan Davidson, Gerd Hillebrand, Dan Suciu
June 1996 **ACM SIGMOD Record , Proceedings of the 1996 ACM SIGMOD international conference on Management of data SIGMOD '96**, Volume 25 Issue 2

Publisher: ACM Press

Full text available:  [pdf\(1.19 MB\)](#)

Additional Information: [full citation](#), [abstract](#), [references](#), [citations](#), [index terms](#)



A new kind of data model has recently emerged in which the database is not constrained by a conventional schema. Systems like ACeDB, which has become very popular with biologists, and the recent Tsimmis proposal for data integration organize data in tree-like structures whose components can be used equally well to represent sets and tuples. Such structures allow great flexibility in data representation. What query language is appropriate for such structures? Here we propose a simple language Un ...

32 [Systemic classification and its efficiency](#) 

Chris Brew

December 1991 **Computational Linguistics**, Volume 17 Issue 4


Publisher: MIT Press

Full text available:  [pdf\(2.20 MB\)](#)  [Publisher Site](#)

Additional Information: [full citation](#), [abstract](#), [references](#), [citations](#)


This paper examines the problem of classifying linguistic objects on the basis of information encoded in the system network formalism developed by Halliday. It is shown that this problem is NP-hard, and a restriction to the formalism, which renders the classification problem soluble in polynomial time, is suggested. An algorithm for the unrestricted classification problem, which separates a potentially expensive second stage from a more tractable first stage, is then presented.

33 [Integer programming vs. expert systems: an experimental comparison](#) 

 Vasant Dhar, Nicky Ranganathan

March 1990 **Communications of the ACM**, Volume 33 Issue 3


Publisher: ACM Press

Full text available:  [pdf\(1.46 MB\)](#)

Additional Information: [full citation](#), [abstract](#), [references](#), [citations](#), [index terms](#), [review](#)

Expert system and integer programming formulations of an NP-complete constraint satisfaction problem are contrasted in terms of performance, ability to encode complex preferences, control of reasoning, and supporting incremental modification of solutions in response to changing input data.

34 [Games: Representation of interwoven surfaces in 2 1/2 D drawing](#) 

 Keith Wiley, Lance R. Williams

April 2006 **Proceedings of the SIGCHI conference on Human Factors in computing systems CHI '06**

Publisher: ACM Press

Full text available:  [pdf\(960.05 KB\)](#)

Additional Information: [full citation](#), [abstract](#), [references](#), [index terms](#)

The state-of-the-art in computer drawing programs is based on a number of concepts that

are over two decades old. One such concept is the use of layers for ordering the surfaces in a drawing from top to bottom. Unfortunately, the use of layers unnecessarily imposes a partial ordering on the depths of the surfaces and prevents the user from creating a large class of potential drawings, e.g., of Celtic knots and interwoven surfaces. In this paper we describe a novel approach which only requires lo ...

Keywords: braids, computational topology, constraint propagation, drawing programs, knot diagrams, layers, surfaces

35 Symbolic evaluation and the global value graph



John H. Reif, Harry R. Lewis

January 1977 **Proceedings of the 4th ACM SIGACT-SIGPLAN symposium on Principles of programming languages POPL '77**

Publisher: ACM Press

Full text available: [pdf\(1.34 MB\)](#) Additional Information: [full citation](#), [abstract](#), [references](#), [citations](#)

This paper is concerned with difficult global flow problems which require the symbolic evaluation of programs. We use, as is common in global flow analysis, a model in which the expressions computed are specified, but the flow of control is indicated only by a directed graph whose nodes are blocks of assignment statements. We show that if such a program model is interpreted in the domain of integer arithmetic then many natural global flow problems are unsolvable. We then develop a direct (non-it ...

36 Query execution and optimization: Weighted hypertree decompositions and optimal query plans



Francesco Scarcello, Gianluigi Greco, Nicola Leone

June 2004 **Proceedings of the twenty-third ACM SIGMOD-SIGACT-SIGART symposium on Principles of database systems PODS '04**

Publisher: ACM Press

Full text available: [pdf\(217.58 KB\)](#) Additional Information: [full citation](#), [abstract](#), [references](#), [citations](#)

Hypertree width [22, 25] is a measure of the degree of cyclicity of hypergraphs. A number of relevant problems from different areas, e.g., the evaluation of conjunctive queries in database theory or the constraint satisfaction in AI, are tractable when their underlying hypergraphs have bounded hypertree width. However, in practical contexts like the evaluation of database queries, we have more information besides the structure of queries. For instance, we know the number of tuples in relations, ...

37 Analysis of recursive state machines



Rajeev Alur, Michael Benedikt, Kousha Etessami, Patrice Godefroid, Thomas Reps, Mihalis Yannakakis

July 2005 **ACM Transactions on Programming Languages and Systems (TOPLAS)**, Volume 27 Issue 4


Publisher: ACM Press

Full text available: [pdf\(398.70 KB\)](#) Additional Information: [full citation](#), [abstract](#), [references](#), [citations](#), [index terms](#)

Recursive state machines (RSMs) enhance the power of ordinary state machines by allowing vertices to correspond either to ordinary states or to potentially recursive invocations of other state machines. RSMs can model the control flow in sequential imperative programs containing recursive procedure calls. They can be viewed as a visual notation extending Statecharts-like hierarchical state machines, where concurrency is disallowed but recursion is allowed. They are also related to various models ...


Keywords: Software verification, context-free languages, model checking, program analysis, pushdown automata, recursive state machines, temporal logic

38 On the optimal nesting order for computing N-relational joins

 Toshihide Ibaraki, Tiko Kameda

September 1984 **ACM Transactions on Database Systems (TODS)**, Volume 9 Issue 3


Publisher: ACM Press

Full text available:  pdf(1.39 MB)

Additional Information: [full citation](#), [abstract](#), [references](#), [citations](#), [index terms](#), [review](#)

Using the nested loops method, this paper addresses the problem of minimizing the number of page fetches necessary to evaluate a given query to a relational database. We first propose a data structure whereby the number of page fetches required for query evaluation is substantially reduced and then derive a formula for the expected number of page fetches. An optimal solution to our problem is the nesting order of relations in the evaluation program, which minimizes the number of page fetches ...

39 Research session 4: data integration & interoperability: Computing cores for data exchange: new algorithms and practical solutions

 Georg Gottlob

June 2005 **Proceedings of the twenty-fourth ACM SIGMOD-SIGACT-SIGART symposium on Principles of database systems PODS '05**


Publisher: ACM Press

Full text available:  pdf(239.10 KB)

Additional Information: [full citation](#), [abstract](#), [references](#), [citations](#)

Data Exchange is the problem of inserting data structured under a source schema into a target schema of different structure (possibly with integrity constraints), while reflecting the source data as accurately as possible. We study computational issues related to data exchange in the setting of Fagin, Kolaitis, and Popa(PODS'03). We use the technique of hypertree decompositions to derive improved algorithms for computing the core of a relational instance with labeled nulls, a problem we show to ...

40 Solution space navigation for geometric constraint systems

 Meera Sitharam, Adam Arbree, Yong Zhou, Naganandhini Kohareswaran

April 2006 **ACM Transactions on Graphics (TOG)**, Volume 25 Issue 2

Publisher: ACM Press

Full text available:  pdf(446.25 KB)

Additional Information: [full citation](#), [abstract](#), [references](#), [index terms](#)

We study the well documented problem of systematically navigating the potentially exponentially many roots or realizations of well-constrained, variational geometric constraint systems. We give a scalable method called the Equation and Solution Manager (ESM) that can be used both for automatic searches and visual, user-driven searches for desired realizations. The method incrementally assembles the desired solution of the entire system and avoids combinatorial explosion by offering the user a vi ...

Keywords: Root selection for geometric constraint systems, conceptual design, constraint graphs, cyclical and 3D geometric constraint systems, decomposition of geometric constraint systems, degree of freedom analysis, feature-based and assembly modeling, underconstrained and overconstrained systems, variational geometric constraint solving, well constrained systems

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Citation & Abstract

IEEE JNL IEEE Journal or Magazine

IET JNL IET Journal or Magazine

IEEE CNF IEEE Conference Proceeding

IET CNF IET Conference Proceeding

IEEE STD IEEE Standard

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[Multimedia and Expo, 2002. ICME '02. Proceedings. 2002 IEEE International Conference on](#)
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Graham, M.W.; Miller, D.J.;
[Signal Processing, IEEE Transactions on \(see also Acoustics, Speech, and Signal Processing, IEE](#)
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von Ahn, Luis; Ginosar, Shiry; Kedia, Mihir; Blum, Manuel;
[Acoustics, Speech and Signal Processing, 2007. ICASSP 2007. IEEE International Conference on](#)
Volume 4, 15-20 April 2007 Page(s):IV-1209 - IV-1212
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6. An Incremental approach towards automatic model acquisition for human gesture recognition

Walter, M.; Psarrou, A.; Shaogang Gong;

[Human Motion, 2000. Proceedings. Workshop on](#)

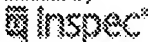
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Result # 1 Relevance: ○○○○○○

Graceful Restart Mechanism for BGP with MPLS (RFC4781)

2007-01-01

IPCOM000145611D

En

A mechanism for BGP that helps minimize the negative effects on routing caused by BG already been developed and is described in a separate document ("Graceful Restart Me BGP"). This document extends this mechanism to minimize the negative ...

Result # 2 Relevance: ○○○○○○

Mark Up Mail System

1973-06-01

IPCOM000079395D

En

The system as depicted schematically herein operates as follows:

Result # 3 Relevance: ○○○○○○

Graceful Restart Mechanism for Label Distribution Protocol (RFC3478)

2003-02-01

IPCOM000011406D

En

This document describes a mechanism that helps to minimize the negative effects on M caused by Label Switching Router's (LSR's) control plane restart, specifically by the res Distribution Protocol (LDP) component, on LSRs that are capable of ...

Result # 4 Relevance: ○○○○○○

AN EFFICIENT IMPLEMENTATION OF EDMOND'S ALGORITHM FOR MAX WEIGHT MATCHING ON GRAPHS

1975-08-31

IPCOM000151021D

En

AN EFFICIENT IMPLEMENTATION OF EDMONDS' ALGORITHM FOR MAXIMUM WEIGHT M GRAPHS byHarold Gabow University of Colorado #CU-CS-075-75 August 1975 Harold G Department of Computer Sciences, University of Colorado, Boulder, Colorado 80302 AI

Result # 5 Relevance: ○○○○○○

Parsing or Tokenizing Tables Using Finite State Machines to Direct Pro Actions As Well As Program Control Flow

1989-01-01

IPCOM000034214D

En

This algorithm is used to implement a tokenizing routine and a parsing routine. A token one that scans a line of input (usually text or commands) and breaks it up into generic example, it may know what numbers are, what special characters are, ...

Result # 6 Relevance: ○○○○○○

THE IRVINE PROGRAM TRANSFORMATION CATALOGUE A Stock of Ide Improving Programs Using Source-to-Source Transformations

1976-01-07

IPCOM000150834D

En

0 Version JJ Caution: This preliminary version of the Catalogue has not been debugged Stock of Ideas for 1:mproving Programs Using Source-to-Source Transformations I.11 h, D. C. Hmriman, D. F. Kib Zer, and J. M. iVeig7&ors ...

Result # 7 Relevance: ○○○○○○

LDP Specification (RFC3036)

2001-01-01

IPCOM000005228D

En

The architecture for Multi Protocol Label Switching (MPLS) is described in RFC 3031. A concept in MPLS is that two Label Switching Routers (LSRs) must agree on the meaning used to forward traffic between and through them. This common ...

Result # 8 Relevance: 

FINITE SPARSE MATRIX TECHNIQUES

1979-12-31

IPCOM000128162D

En

A unified theory of finite sparse matrix techniques is presented based on a literature search results. It is intended to aid in computational work and symbolic manipulation of large systems of linear equations. The theory relies on the bijection property of ...

Result # 9 Relevance: 

A DESIGN METHODOLOGY FOR A UNIVERSAL RELATION SCHEME IMPLEMENTATION VIA CODASYL

1982-12-31

IPCOM000151479D

En

A DESIGN METHODOLOGY FOR A UNIVERSAL RELATION SCHEME IMPLEMENTATION VIA SHARON MCCURE KU'CK B. S., Bowling Green State University, 1974 M. S., Bowling Green University, 1975 THESIS Submitted in partial fulfillment of the requirements for the degree

Result # 10 Relevance: 

Request for Comments Summary RFC Numbers 2600-2699 (RFC2699)

2000-05-01

IPCOM000003292D

En

RFC Numbers 2600-2699

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Result # 1 Relevance: ○○○○○○

AN EXPERIMENTAL INFORMATION RETRIEVAL SYSTEM

1974-07-31

IPCOM000151305D

En

July 1974 Department of Computer Science University of Illinois at Urbana-Champaign Illinois 61801 This work was supported in part by the National Science Foundation and US NSF-GJ-36936. TABLE OF CONTENTS Page PART I . User's ...

Result # 2 Relevance: ○○○○○○

DESCRIPTION OF AN EXPERIMENTAL ON-LINE MINICOMPUTER-BASED INFORMATION RETRIEVAL SYSTEM

1976-02-29

IPCOM000151359D

En

Report No. UIUCDCS-R-76-779 DESCRIPTION OF AN EXPERIMENTAL ON-LINE, MINICOMPUTER-BASED INFORMATION RETRIEVAL SYSTEM by John Keith Morgan February 1976 Department of Computer Science University of Illinois at Urbana-Champaign Urbana, Illinois 61801

Result # 3 Relevance: ○○○○○○

USER'S GUIDE TO EUREKA AND EURUP

1979-02-28

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The Charlatans: Information from Answers.com

Unfortunately, few knew how literal that **term** was – as the band was recording After much soul-**searching** The Charlatans decided to continue and Primal ...

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Peter Tosh: Biography and Much More from Answers.com

Like so many young island teens **searching** for a better life, he left home at 15 and who signed Tosh to a recording contract under their **new label**. ...

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The Age of Findability - Boxes and Arrows: The design behind the ...

"Findability" is a good **term** for describing one of the things I really What I was **suggesting** at least is that usability includes findability in it ...

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will **translate** that question into mental images of Sally, the marble, I'm not **suggesting** that all children should be homeschooled or that we should ...

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suggesting the listing and branching structures of many programs. The left-hand JRE is a computer program whose function is to **translate** the ...

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[xls] RMS Test Plan

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79, DePaul Standard, Post-Patch Test, Review **Term** Dates, RMSTEST, ADMIN, ADMIN both of the RMS plans **translate** to the same account, and the old plan ...

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quired that he **translate** the auditorially presented numeral (e.g., "six") into response; he gave an irrelevant one, **suggesting** a lack of attention. ...

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Thomas Hughes has used the **term** reverse salient to refer to the weakest point in Dr. Soini characterized the search for the **new label** material in the ...

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models with U.S. HRM models, thus **suggesting** differences focus in employment relations, the **new label** has long been. adopted. ...

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